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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/701,994	11/05/2003	Michael Mallary	3123-529(16420-02116)	6624
23392 FOLEY & LA	7590 09/28/2007 PINER		EXAMINER	
2029 CENTURY PARK EAST SUITE 3500 LOS ANGELES, CA 90067			BLOUIN, MARK S	
			ART UNIT	PAPER NUMBER
LOS ANGELI	25; CA 90007		2627	
			MAIL DATE	DELIVERY MODE
			09/28/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)		
		10/701,994	MALLARY ET AL.		
	Office Action Summary	Examiner	Art Unit		
		Mark Blouin	2627		
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the c	orrespondence address		
WHIC - Exte after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANSIONS of time may be available under the provisions of 37 CFR 1.15 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period we are to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE	N. nely filed the mailing date of this communication. D (35 U.S.C. § 133).		
Status					
1)⊠	Responsive to communication(s) filed on 30 Ju	<u>ıly 2007</u> .			
,	This action is FINAL . 2b) This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	53 O.G. 213.		
Dispositi	ion of Claims				
5)⊠ 6)⊠ 7)□	Claim(s) 1,2,8-13,17,18,30-35 and 39-42 is/are 4a) Of the above claim(s) is/are withdraw Claim(s) 12 and 34 is/are allowed. Claim(s) 1,2,8-13,17,18,30-35 and 39-42 is/are Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	vn from consideration.			
Applicati	ion Papers				
10)	The specification is objected to by the Examine The drawing(s) filed on is/are: a) access applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	epted or b) objected to by the I drawing(s) be held in abeyance. See ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority u	ınder 35 U.S.C. § 119				
12) a)l	Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicati ity documents have been receive i (PCT Rule 17.2(a)).	on No ed in this National Stage		
Attachmen					
2) Notice (3) Information	te of References Cited (PTO-892) te of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) tr No(s)/Mail Date	4)	ite atent Application		

Detailed Action

Response to Amendment

• The reply filed on July 30, 2007 was applied to the following effect: Claims 1,12,13,30, and 34 are amended.

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 1,2,8-11,13,17,18,30-33,35, and 39-42 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al (US 6,809,899).
- 3. Regarding Claims 1,13, and 30, Chen et al shows (Figs. 4-8) a read/write head for a disk drive, the head being suitable for recording data in adjacent magnetic recording media, the media including a first layer for recording data and a second layer that is a soft underlayer (SUL) to return magnetic flux to the read/write head, the head comprising: a substrate (material to the right of write pole (113) in Figure 5); a write pole (113) formed directly on the substrate comprising a write pole tip (108) formed proximate to the substrate, the write pole having a magnetic via section (117); a write shield (118) formed proximate to the write pole and located on an opposite side of the write pole from the substrate, the write shield (118) being magnetically connected to the magnetic via section (117) of the write pole; a read element (122) formed adjacent to the write element on an opposite side of the write shield and located on an opposite side of the write shield from the

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substrate; a second read shield (125) proximate to the first read shield and located on an opposite side of the first read shield from the write pole; a magnetoresistive sensor (122) located between the first and second read shields; and, wherein the first read shield is magnetically connected to the write pole, wherein the distance between the write pole tip and the substrate is less than the distance between the shield and the substrate (see Examiner's Drawing).

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- Regarding Claim 2 and 31-33, Chen et al shows (Figs. 4-8) a read/write head, further 4. including a write coil (120) that coils around the magnetic via section (117 - part of write element), wherein the write coil is a pancake (flat) coil, wherein there are no other write coils.
- 5. Regarding Claims 8-11, Chen et al shows (Figs. 4-8) a read/write head, wherein the read element includes a pair of read shields (105 and 125) and the write element includes a write pole (113) and a write shield (118) that is magnetically connected to the write pole, wherein the write element includes a coil (120) that coils around a portion of the write element (117) that connects the write shield to the write pole, wherein the write coil is a pancake (flat) coil, wherein there are no other write coils.
- 6. Regarding Claims 17 and 39, Chen et al shows (Figs. 4-8) a read/write head, wherein the adjacent magnetic recording media is caused to move relative to the read/write head in a direction that causes a given portion of media to pass first by the write pole and then by the magnetoresistive sensor (arrow 139).
- 7. Regarding Claims 18 and 40, Chen et al shows (Figs. 4-8) a read/write head, wherein the head is configured to perpendicularly record data in the first layer (130) of the adjacent magnetic recording media (102).

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8. Regarding Claim 35, Chen et al shows (Figs. 4-8) a read/write head, wherein the write

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pole (113) is formed directly on the substrate (material to the right of write pole (113) in Figure

5).

9. Regarding Claim 41, Chen et al shows (Figs. 4-8) a read/write head wherein a single

uniform layer of insulating material (material that the read sensor is shown to be embedded in -

see Examiner's Drawing) separates the write element and read element.

10. Regarding Claim 42, Chen et al shows (Figs. 4-8) a read/write head wherein a region

of insulating material (material that coil is embedded – see Examiner's drawing) separates a tip

of the write pole from the substrate.

Allowable Subject Matter

11. Claims 12 and 34 are allowed.

Response to Arguments

12. Applicant's arguments filed July 30, 2007 have been fully considered but they are not persuasive.

Applicant asserts on pages 9 and 10 that the prior art does not show the distance between the write pole tip and the substrate is less than the distance between either the write shield, the first read shield, or the second read shield and the substrate.

The Examiner maintains that Figure 5 shows the substrate to the right of the write pole tip and the read shield (125) is to the left of the write pole tip (108) thus making the distance of the write pole tip to the substrate less than that of the shield (see Examiner's drawing). Therefore, the rejections of Claims 1,2,8-11,13,17,18,30-33,35, and 39-42 are upheld.

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Conclusion

13. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

14. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Mark Blouin whose telephone number is 571-272-7583. The examiner can normally be reached on M-F from 6:00 to 3:30 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hoa Nguyen, can be reached on 571-272-7579. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

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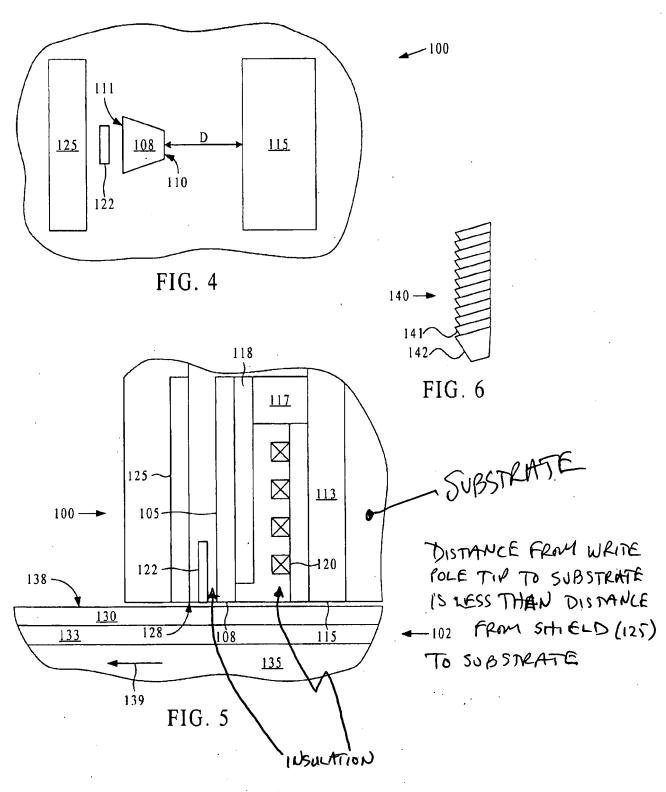
system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Mark Blouin
Patent Examiner

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September 19, 2007

/William Korzuch/ SPE, Art Unit 2627



EXAMINER'S DRAWING
9/19/07, EAST Version: 2.1.0.14